Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for data repair in a point-to-multipoint communications system, the method comprising:

transmitting data from a sender to a plurality of receivers via a point-to-multipoint session;

determining if any expected data was not received;

if some expected data was not received, sending a data repair request to the sender requesting that the expected-but-not-received data be resent; and

retransmitting from the sender all of the requested expected-but-not-received data via the point-to-multipoint session.

2. (Previously Presented) A method for data repair in a point-to-multipoint communications system, the method comprising:

transmitting data from a sender to a plurality of receivers via a point-tomultipoint session;

determining if any expected data was not received;

if some expected data was not received, sending a data repair request to the sender requesting that the expected-but-not-received data be resent;

retransmitting from the sender all of the requested expected-but-not-received data via the point-to-multipoint session;

after the sender retransmits the requested expected-but-not-received data, if some data was still not received, scheduling point-to-point repair sessions for specific receivers that expected data that was not received; and

sending data still not received to the specific receivers via point-to-point sessions according to the point-to-point repair session schedule.

3. (Previously Presented) The method of claim 2, wherein scheduling point-topoint repair sessions further comprises specifying a randomization mechanism to randomize point-to-point data repair over a certain time period after the sender has retransmitted the requested expected-but-not-received data.

4. (Original) The method of claim 2, wherein scheduling point-to-point repair sessions further comprises:

if point-to-multipoint repair is possible for a receiver, then uniformly randomizing data repair requests over a time period X starting from the end of the initial transmitting of data from the sender to the receivers via the point-to-multipoint session;

else

waiting until a certain time Y after the initial transmitting of data from the sender to the receivers via the point-to-multipoint session and then randomizing the data repair requests over a time period Z.

- 5. (Original) The method of claim 2, wherein scheduling point-to-point repair sessions comprises sending a point-to-point repair token from the sender to the plurality of receivers to announce when point-to-point repair will begin.
- 6. (Original) The method of claim 3, wherein the randomization mechanism is configured to take into account the number of receivers included in the plurality of receivers.
- 7. (Original) The method of claim 6, further comprising:
 determining the number of receivers in the plurality of receivers; and
 computing the randomization values for the randomization mechanism based
 on the determined number of receivers.
- 8. (Original) The method of claim 7, wherein computing the randomization values further comprises looking up the randomization values up in a look-up table based on the determined number of receivers.
- 9. (Currently Amended) A point-to-multipoint communication system for repairing data, the system comprising:
 - a sender device for transmitting data via point-to-multipoint communications; a plurality of receivers for receiving data from the sender device;

wherein the sender device is configured to transmit data to the plurality of receivers via a point-to-multipoint session;

the plurality of receivers are configured to receive data transmitted by the sender device, determine if any expected data was not received, and, if so, send a data repair request back to the sender device requesting that the expected-but-not-received data be resent; and

the sender device is configured to receive data repair requests from the plurality of receivers and to retransmit all of the requested expected-but-not-received data to the plurality of receivers via the point-to-multipoint session.

10. (Previously Presented) A point-to-multipoint communication system for repairing data, the system comprising:

a sender device for transmitting data via point-to-multipoint communications;

a plurality of receivers for receiving data from the sender device;

wherein the sender device is configured to transmit data to the plurality of receivers via a point-to-multipoint session;

the plurality of receivers are configured to receive data transmitted by the sender device, determine if any expected data was not received, and, if so, send a data repair request back to the sender device requesting that the expected-but-not-received data be resent; and

the sender device is configured to receive data repair requests from the plurality of receivers and to retransmit all of the requested expected-but-not-received data via the point-to-multipoint session;

wherein the sender device is further configured to schedule point-to-point data repair sessions with the plurality of receivers after retransmission of the requested expected-but-not-received data and the sender is configured to send expected-but-not-received data to the plurality of receivers via point-to-point sessions.

11. (Original) The system of claim 10 wherein the sender device is further configured to specify a randomization mechanism to delay point-to-point data repair.

- 12. (Currently Amended) The system of claim 11 wherein the sender <u>is capable of determining ean determine</u> the number of receivers on the point-to-multipoint session and <u>is capable of computing ean compute</u> a randomization mechanism that is based on the determined number of receivers.
- 13. (Original) The system of claim 10 wherein the sender is configured to send a point-to-point repair token to the plurality of receives to announce when point-to-point repair will begin.
- 14. (Original) The system of claim 10 further comprising a look-up table for determining the point-to-point repair schedule.
- 15. (Previously Presented) A computer code product embodied on a computer readable medium, the computer code product comprising:

computer code configured to:

transmit data from a sender to a plurality of receivers via a point-to-multipoint session;

determine if expected data was not received at any of the plurality of receivers;

make a data repair request if any expected data was not received at any of the plurality of receivers; and

retransmit all of the requested expected-but-not-received data to the plurality of receivers via the point-to-multipoint session.

16. (Previously Presented) A computer code product embodied on a computer readable medium, the computer code product comprising:

computer code configured to:

transmit data from a sender to a plurality of receivers via a point-to-multipoint session;

determine if expected data was not received at any of the plurality of receivers;

make a data repair request if any expected data was not received at any of the plurality of receivers; and

retransmit all of the requested expected-but-not-received data to the plurality of receivers via the point-to-multipoint session;

wherein the computer code is further configured to schedule point-to-point data repair sessions after retransmission of the requested expected-but-not-received data.

- 17. (Original) The computer code product of claim 15 wherein the computer code is further configured to determine the number of receivers on the point-to-multipoint session and schedule the point-to-point data repair sessions based on the determined number of receivers.
- 18. (Previously Presented) A sender device for use in a point-to-multipoint communication system, the sender device comprising:

means for transmitting data to a plurality of receivers via a point-to-multipoint session;

means for receiving data repair requests from the plurality of receivers requesting expected-but-not-received data;

means for retransmitting all of the requested expected-but-not-received data via a point-to-multipoint session.

19. (Previously Presented) A sender device for use in a point-to-multipoint communication system, the sender device comprising:

means for transmitting data to a plurality of receivers via a point-to-multipoint session;

means for receiving data repair requests from the plurality of receivers requesting expected-but-not-received data;

means for retransmitting all of the requested expected-but-not-received data via a point-to-multipoint session; and

means for scheduling point-to-point data repair sessions with the plurality of receivers after retransmitting the requested expected-but-not-received data.

- 20. (Original) The sender device of claim 18 wherein the sender device further comprises means for determining the number of receivers using the point-to-multipoint session wherein the sender is configured to schedule the point-to-point data repair sessions based on the determined number of receivers.
- 21. (Previously Presented) A method for data repair in a point-to-multipoint communication system, the method comprising:

transmitting data from a sender to a plurality of receivers via a point-to-multipoint session;

determining if any of the plurality of receivers expected data that was not received;

determining the number of receivers using the point-to-multipoint session; computing randomization values for a randomization mechanism based on the determined number of receivers;

scheduling point-to-point repair sessions with any of the plurality of receivers that expected data that was not received; and

delaying the point-to-point data repair sessions based on the computed randomization values.

22. (Previously Presented) A computer code product embodied on a computer readable medium, the computer code product comprising:

computer code configured to:

transmit data from a sender to a plurality of receivers via a point-to-multipoint session;

determine if expected data was not received at any of the plurality of receivers;

make a data repair request if any data was not received at any of the plurality of receivers;

determine the number of receivers on the point-to-multipoint session; schedule point-to-point data repair sessions for each receiver that did not receive all expected data; and

delaying the point-to-point data repair session based on the number of determined receivers.

23. (Previously Presented) A sender device for use in a point-to-multipoint communication system, the sender device comprising:

means for transmitting data to a plurality of receivers via a point-to-multipoint session;

means for receiving data repair requests from the plurality of receivers requesting expected-but-not-received data;

means for determining the number of receivers using the point-to-multipoint session;

wherein the sender device is configured to schedule point-to-point data repair sessions with receivers that did not receive all expected data; and

delaying the point-to-point data repair session based on the determined number of receivers.

24. (Previously Presented) A point-to-multipoint communication system for repairing data, the system comprising:

a sender device for transmitting data via point-to-multipoint communications; a plurality of receivers for receiving data from the sender device;

wherein the sender is configured to transmit data to the plurality of receivers via a point-to-multipoint session;

the plurality of receivers being configured to receive data transmitted by the sender device, determine if any expected data was not received, and if so, send a data repair request back to the sender device requesting that the expected-but-not-received data be resent;

the sender being configured to determine the number of receivers on the pointto-multipoint session and to determine a randomization mechanism based on the determined number of receivers;

the sender being configured to schedule point-to-point repair sessions with receivers that expected data that was not received, the point-to-point repair sessions being delayed based on the randomization mechanism.